

Office of Laboratory Licensure, Certification & Training

3443 N Central Avenue, Suite 810 Phoenix, Arizona 85012 (602) 255-3454 (602) 255-1070 FAX Technical Support Hot-Line 1-800-592-0374 E-Mail: acharyp@azdhs.gov

Jane Dee Hull, Governor James R. Allen, MD, MPH, Director

DATE: August 27,1996

TO: Laboratory Director and QA Manager

FROM: Wesley B. Press, Acting Bureau Chief

SUBJECT: Information Update #31

NOTE: If any problems occur with this web site, please call 1-800-952-0374 or (602) 255-3454 extension

205, 221 or 222. Thank You.

- A one day workshop on GC topics is scheduled for September 27, 1996, 9am 3pm, in the 9th floor conference room at 3443 North Central Avenue, Phoenix. This workshop will be presented by J & W Scientific. Topics include:
 - a. Care and Maintenance: How to Maximize Capillary Column Life
 - b. Successful Pesticide Analysis: What You Should Know to Reduce Downtime
 - c. Optimizing Parameters Affecting Analysis of Volatile Organic Compounds by Purge and Trap
 - d. Troubleshooting: When is it the (GC) Column's Fault
 - e. Techniques, Tips, and Tricks of Troubleshooting Capillary GC Systems: Common Problems and Their Causes, Troubleshooting Tests

The registration fee is \$20, which includes lunch and parking validation. Please bring your parking stub to us for validation stamp. Seating will be limited to 35 people. To register, call Cristy Finan at (602) 255-3454. Checks should be made payable to ADHS.

- 2. Results of the MDL survey (distributed in Information Update #27, April 10, 1996) have been compiled. Thank you for the excellent response. Due to the length of the document, we are sending a copy by mail this week to the attention of the laboratory directors and the QA managers of the Arizona licensed labs. If you have any questions regarding the survey, feel free to call us.
- 3. Technical Resources and Training, as well as all of the Arizona Department of Health Services is now online. Our internet address is http://www.hs.az.us/lab/license/ We will be loading the most recent Information Update on our home page.
- 4. Following is a list of EPA and Standard Methods procedures for drinking water promulgated as of July 1,1996. For more comprehensive information and method references, please consult the USEPA "Technical Notes on Drinking Water Methods," EPA/600/R-94/173, October 1994.

METHODS FOR COLIFORM SAMPLING:

Organism Promulgated/Approved Methods

Total Coliforms 9221A, B, 9222A, B, C, 9221D, 9223,

Colisure Test

METHODS FOR INORGANIC CHEMICALS AND OTHER PARAMETERS:

Contaminant Promulgated/Approved Methods

Antimony 200.8, 200.9, 3113B

Arsenic 200.7, 200.8, 200.9, 3120B, 3113B, 3114B

Asbestos 100.1, 100.2

Barium 200.7, 200.8, 3120B, 3111D, 3113B

Beryllium 200.7, 200.8, 200.9, 3120B, 3113B

Cadmium 200.7, 200.8, 200.9, 3113B

Chromium 200.7, 200.8, 200.9, 3120B, 3113B

Cyanide 335.4, 4500-CN-C, 4500-CN-G, 4500-CN-E, 4500-CN-F

Fluoride 300.0, 4110B, 4500F-B,D, 4500F-C, 4500F-E

Mercury 245.1, 245.2, 200.8, 3112B

Nickel 200.7, 200.8, 200.9, 3120B, 3111B, 3113B

Nitrate 300.0, 353.2, 4110B, 4500-NO3-F, 4500-NO3-D, 4500-NO3-E

Nitrite 300.0, 353.2, 4110-B, 4500-NO3-F, 4500-NO3-E, 4500-NO2-B

Selenium 200.8, 200.9, 3114B, 3113B

Thallium 200.8, 200.9

Lead 200.8, 200.9, 3113B

Copper 200.7, 200.8, 200.9, 3113B, 3111B, 3120B

рН 150.1, 150.2, 4500-H+-В

Conductivity 2510B

Calcium 200.7, 3500-Ca-D, 3111B, 3120B

Alkalinity 2320B

Ortho-phosphate, 365.1, 300.0, 4500-P-F, 4500-P-E, 4110

unfiltered, no

digestion or

hydrolysis

Silica 200.7, 4500-Si-D, 4500-Si-E, 4500-Si-F, 3120B

Temperature 2550

Sodium 200.7, 3111B

Contaminant	Promulgated/Approved Methods

Benzene	502.2,	524.2		
Carbon tetrachloride	502.2,	524.2,	551	
Chlorobenzene	502.2,	524.2		
1,2-Dichlorobenzene	502.2,	524.2		
1,4-Dichlorobenzene	502.2,	524.2		
1,2-Dichloroethane	502.2,	524.2		
cis-Dichloroethylene	502.2,	524.2		
trans-Dichloroethylene	502.2,	524.2		
Dichloromethane	502.2,	524.2		
1,2-Dichloropropane	502.2,	524.2		
Ethylbenzene	502.2,	524.2		
Styrene	502.2,	524.2		
Tetrachloroethylene	502.2,	524.2,	551	
1,1,1-Trichloroethane	502.2,	524.2,	551	
Trichloroethylene	502.2,	524.2,	551	
Toluene	502.2,	524.2		
1,2,4-Trichlorobenzene	502.2,	524.2		
1,1-Dichloroethylene	502.2,	524.2		
1,1,2-Trichloroethane	502.2,	524.2		
Vinyl chloride	502.2,	524.2		

Xylenes (total)	502.2, 524.2		
2,3,7,8-TCDD (dioxin)	1613		
2,4-D	515.2, 555, 515.1		
•			
2,4,5-TP (Silvex)	515.2, 555, 515.1		
Alachlor	505, 507, 525.2, 508.1		
Atrazine	505, 507, 525.2, 508.1		
Benzo(a)pyrene	525.2, 550, 550.1		
Carbofuran	531.1, 6610		
Chlordane	505, 508, 525.2, 508.1		
Dalapon	552.1, 515.1		
Di(2-ethylhexyl)adipate	506, 525.2		
Di(2-ethylhexyl)phthalate	506, 525.2		
Dibromochloropropane (DBCP)	504.1, 551		
Dinoseb	515.2, 555, 515.1		
Diquat	549.1		
Endothall	548.1		
Endrin	505, 508, 525.2, 508.1		
Ethylene dibromide (EDB)	504.1, 551		
_			
Glyphosate	547, 6651		
Heptachlor	505, 508, 525.2, 508.1		

Heptachlor Epoxide	505,	508,	525.2,	508.1
Hexachlorobenzene	505,	508,	525.2,	508.1
Hexachlorocyclopentadiene	505,	508,	525.2,	508.1
Lindane	505,	508,	525.2,	508.1
Methoxychlor	505,	508,	525.2,	508.1

505, 508, 525.2, 508.1 Methoxychlor

Oxamyl 531.1, 6610

PCBs (as decachlorobiphenyl) 508A

505, 508 (as Aroclors)

Pentachlorophenol 515.2, 525.2, 555, 515.1

Picloram 515.2, 555, 515.1

Simazine 505, 507, 525.2, 508.1

Toxaphene 505, 508, 525.2

Total Trihalomethanes 502.2, 524.2, 551

METHODS FOR FILTRATION AND DISINFECTION

1. Microbiological, pH, and Turbidity Methods

Organism Promulgated/Approved Methods

Total Coliforms 9221A, B, C, 9222A, B, C, 9223

Fecal Coliforms 9221E, 9222D

Heterotrophic bacteria 9215B

Turbidity 2130B, 180.1, Method 2

Temperature 2550

2. Disinfectant Residual Methods

Residual Promulgated/Approved Methods

Free Chlorine 4500-Cl D, 4500-Cl F, 4500-Cl G, 4500-Cl H

Total Chlorine 4500-Cl D, 4500-Cl E, 4500-Cl F, 4500-Cl G, 4500-Cl I

Chlorine Dioxide 4500-Cl02 C, 4500-Cl02-D, 4500-Cl02-E

Ozone 4500-03 B

5. If you have any questions regarding the Updates, or if you have any technical questions that need clarification, please call or send <u>e-mail</u> to Prabha Acharya, Program Manager, Technical Resources and Training at the Laboratory Licensure. A <u>table of contents</u> to all the Information Updates published is also available.

Permission to quote from or reproduce materials from this publication is granted when due acknowledgment is made.

This message is available in alternative format by contacting Wesley Press at (602) 542-0357

The <u>Arizona Department of Health Services</u> does not discriminate on the basis of disability in administration of its programs and services as prescribed by Title II of the Americans with Disability Act of 1990 and Section 504 of the Rehabilitation Act of 1973.